LESSON PLAN

Department: CSE		Semester: 3rd , Name of Faculty : KUMARI JYOTI
Subject: Object Oriented Methodology (OOM)	No. of days/ week Class allotted: 4	Effective From Date: 01.07.2024
		No. of Week- 15
		Topic to be Covered:
Week	**Class Day**	**Theory**
1st	1st	**UNIT 1: OBJECT ORIENTED PROGRAMMING (OOPS) CONCEPTS** **1.1** Programming Languages
	2nd	**1.2** Object Oriented Programming
	3rd	**1.3** OOPS concepts and terminology
	4th	**1.4** Benefit of OOPS
2nd	1st	**1.5** Application of OOPS
	2nd	**1. Doubt Clearing class** **2. Quiz test** **3. Assignment**
	3rd	**UNIT 2: INTRODUCTION TO JAVA** **2.1** What is Java ?
	4th	**2.2** Execution Model of Java **2.3** The Java Virtual Machine
3rd	1st	**2.4** A First Java Program **2.5** Variables and Data types
	2nd	**2.6** Primitive Datatypes & Declarations
	3rd	**2.7** Numeric and Character Literals **2.8** String Literals
	4th	**2.9** Arrays, Non-Primitive Datatypes
4th	1st	**2.10** Casting and Type Casting
	2nd	**2.11** Widening and Narrowing Conversions
	3rd	**2.12** Operators and Expressions
	4th	**2.13** Control Flow Statements
5th	1st	**1. Doubt Clearing class** **2. Quiz test** **3. Assignment**
	2nd	**UNIT 3: OBJECTS AND CLASSES** **3.1** Concept and Syntax of class
	3rd	**3.2** Defining a Class **3.3** Concept and Syntax of Methods
	4th	**3.4** Defining Methods **3.5** Creating an Object
6th	1st	**3.6** Accessing Class Members **3.7** Instance Data and Class Data
	2nd	**3.8** Constructors **3.9** Access specifiers
	3rd	**3.10** Access Modifiers **3.11** Access Control

	4th	**1. Doubt Clearing class** **2. Quiz test** **3. Assignment**
7th	**1st**	**UNIT 4: USING JAVA OBJECTS** **4.1** String Builder and String Buffer
	2nd	**4.2** Methods and Messages **4.3** Parameter Passing
	3rd	**4.4** Comparing and Identifying Objects
	4th	**1. Doubt Clearing class** **2. Quiz test** **3. Assignment**
8th	**1st**	**UNIT 5: INHERITANCE** **5.1** Inheritance in Java
	2nd	**5.2** Use of Inheritance **5.3** Types of Inheritance
	3rd	**5.4** Single Inheritance
	4th	**5.5** Multi-level Inheritance
9th	**1st**	**5.6** Hierarchical Inheritance
	2nd	**5.7** Hybrid Inheritance
	3rd	**1. Doubt Clearing class** **2. Quiz test** **3. Assignment**
	4th	**UNIT 6: POLYMORPHISM** **6.1** Types of Polymorphism
10th	**1st**	**6.2** Method Overloading
	2nd	**6.3** Run time Polymorphism
	3rd	**6.4** Method Overriding
	4th	**1. Doubt Clearing class** **2. Quiz test** **3. Assignment**
11th	**1st**	**UNIT 7: PACKAGES: PUTTING CLASSES TOGETHER** **7.1** Introduction
	2nd	**7.2** Java API Packages **7.3** Using System Packages
	3rd	**7.4** Naming Convention **7.5** Creating Packages
	4th	**7.6** Accessing a Package **7.7** Using a Package
12th	**1st**	**7.8** Adding a Class to Package **7.9** Hiding Classes
	2nd	**7.10** Static Import
	3rd	**1. Doubt Clearing class** **2. Quiz test** **3. Assignment**
	4th	**UNIT 8: JAVA FILES AND I/O** **8.1** What is a stream?
13th	**1st**	**8.2** Reading and writing to files(only txt files **8.3** Input and Output Stream
	2nd	**8.4** Manipulating Input data **8.5** Opening and Closing Streams

	3rd	**8.6** Predefined streams **8.7** File handling Classes and Methods
	4th	**1. Doubt Clearing class** **2. Quiz test** **3. Assignment**
14th	1st	**UNIT 9: EXCEPTION HANDLING** **9.1** Exceptions Overview
	2nd	**9.2** Exception Keywords **9.3** Catching Exceptions
	3rd	**9.4** Using Finally Statement **9.5** Exception Methods
	4th	**9.6** Declaring Exceptions **9.7** Defining and throwing exceptions
15th	1st	**9.8** Errors and Runtime Exceptions
	2nd	**1. Doubt Clearing class** **2. Quiz test** **3. Assignment**
	3rd	**Revision**
	4th	**Previous Year Question Discussions**

Signature of Faculty

HOD
Senior Lecture, CSE
Govt. Polytechnic,
Kandhamal